WHAT IS CLAIMED IS:

1	1.	A refurbisher for treating at least one intervertebral disc, said
2	refurbisher compris	ing:
3	(a)	a ribbon-like energy application head having an energy application
4		region and a tissue protecting region; and
5	(b)	a control member operationally connected to said ribbon-like
6		energy application head, said control member suitable for
7		controlling said ribbon-like energy application head during
8		treatment of said at least one intervertebral disc.
1	2.	The refurbisher of claim 1 wherein said ribbon-like energy
2	application head is	expandable and contractible.
1	3.	The refurbisher of claim 1 wherein said ribbon-like energy
2	application head ha	as at least one energy transmission layer.
1	4.	The refurbisher of claim 1 wherein said ribbon-like energy
2	application head ha	as at least one heat generation layer.
1	5.	The refurbisher of claim 1 wherein said ribbon-like energy
2	application head ha	as at least one insulation layer.
1	6.	The refurbisher of claim 1 wherein said ribbon-like energy
2	application head ha	as at least one layer for deflecting the overlying dural sac and nerve
3	roots to protect the	m from the effects of the thermal treatment.
1	7.	The refurbisher of claim 1 wherein said ribbon-like energy
2	application head ha	as at least one expandable and contractable layer.

1	{	В.	The returbisher of claim 1, said ribbon-like energy application head
2	further compris	sing:	
3	((a)	a bottom layer having a heat generator therein;
4	((b)	a middle layer providing thermal insulation; and
5 6	((c)	a top layer for deflecting the overlying dural sac and nerve roots to protect them from the effects of the thermal treatment.
1	ç	9.	An apparatus for treating at least one intervertebral disc, said
2	apparatus con	nprisir	ng:
3 4	((a)	an expandable and contractible energy application head having an energy application region and a tissue protecting region; and
5 6 7 8	((b)	said energy application head having a distance between said energy application region and said tissue protecting region wherein said distance is variable to protect tissue associated with said at least one intervertebral disc.
1 2	comprising:	10.	The apparatus of claim 9, said energy application head further
3	((a)	smooth, rounded edges;
4	((b)	a domed center section; and
5	((c)	said edges sloped to said domed center section;
6 7	((d)	wherein said energy application head has a wedge-shaped head geometry.
1	•	11.	The apparatus of claim 9, wherein said energy application head is a
2	ribbon-like ene	ergy a	pplication head having an energy application region and a tissue
3	protecting regi		

1	12.	The apparatus of claim 9, said energy application region is selected	
2	from the group consisting of:		
3	(a)	a flexible energy application region;	
4	(b)	a flat energy application region;	
5	(c)	an concave energy application region;	
6	(d)	a convex energy application region; and	
7	(e)	a malleable energy application region.	
1	13.	The apparatus of claim 9, said distance between said energy	
2	application region and said tissue protecting region being variable in proportion to the		
3	amount of energy b	eing delivered to the intervertebral disc.	
1	14.	The apparatus of claim 9, said distance between said energy	
2	application region a	and said tissue protecting region being automatically variable.	
1	15.	The apparatus of claim 9, said distance between said energy	
2	application region a	and said tissue protecting region being manually variable.	
1	16.	The apparatus of claim 9, said distance between said energy	
2	application region a	nd said tissue protecting region being variable by mechanically	
3	expanding and con	tracting said expandable and contractible energy application head.	
1	17.	The apparatus of claim 9 further including an inflatable portion for	
2	expanding and conf	tracting said expandable and contractible energy application head.	

1		18.	An energy application device, said device comprising:
2		(a)	an energy application head having an energy application region
3			and a tissue protecting region;
4		(b)	a distance between said energy application region and said tissue
5			protecting region;
6		(c)	said energy application head having a contracted state in which
7			said distance is a minimum distance;
8		(d)	said energy application head having an expanded state in which
9			said distance is a protecting distance greater than said minimum
10			distance; and
11		(e)	means for varying said distance between said minimum distance
12			and said protecting distance.
1		19.	The device of claim 18, said energy application head further
2	comprising:		
3		(a)	smooth, rounded edges;
4		(b)	a domed center section; and
5		(c)	said edges sloped to said domed center section;
6		(d)	wherein said energy application head has a wedge-shaped head
7			geometry.
1		20.	The device of claim 18, wherein said energy application head is a
2	ribbon-like energy application head having an energy application region and a tissue		
3	protecting region.		

7	21.	A method for thermally treating an intervertebral disc while
2	thermally protecting	vulnerable tissues, said method comprising the steps of:
3	(a)	gaining access to a vertebral column;
4	(b)	epidurally approaching the posterior aspect of said at least one
5		intervertebral disc with an energy application head having an
6		energy application region, a tissue protecting region, and a distance
7		defined between said energy application region and said tissue
8		protecting region;
9	(c)	varying said distance to protect tissue associated with said at least
10		one intervertebral disc to maintain a safe temperature in vulnerable
11		tissues near said at least one intervertebral disc; and
12	(d)	applying energy to a posterior aspect of said at least one
13		intervertebral disc while maintaining a safe temperature in said
14		vulnerable tissues near said at least one intervertebral disc.
1	22.	The method of claim 21, further comprising at least one step
2	selected from the gr	oup of steps consisting of:
3 .	(a)	evaluating an extent of disc injury;
4	(b)	calculating an amount of energy needed to refurbish thermally said
5		at least one intervertebral disc;
6	(c)	monitoring an amount of energy delivered and a temperature in
7		vulnerable tissues around said at least one intervertebral disc;
8	(d)	
9	(d)	observing and evaluating an amount of shrinkage and
9		strengthening of said at least one intervertebral disc to determine
		an intensity and duration of further energy delivery; and
11	(e)	verifying that said shrinkage and strengthening of said at least one
12		intervertebral disc is mechanically successful.